

PATENT ABSTRACTS OF JAPAN

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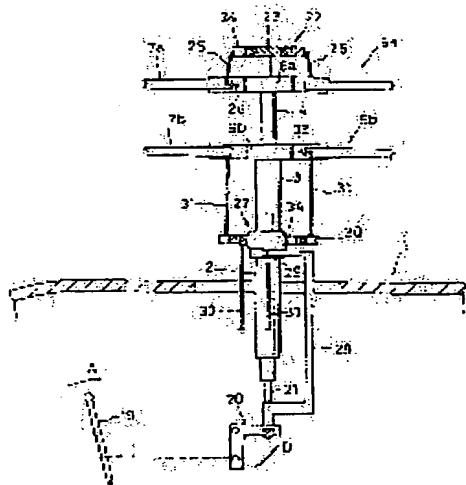
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(54) DOUBLE COUNTER-ROTATING ROTOR OF HELICOPTER

(57)Abstract:

PURPOSE: To make a diameter providing the same lift smaller than that of a single rotor by providing a collective pitch control mechanism which controls the pitch angles of rotors in conjunction while keeping the pitch angles of upper and lower rotor blades at predetermined angles.

CONSTITUTION: When the collective pitch control rods 21, 28 of upper and lower rotors 5a, 5b are pushed up by rotating a bell crank 20 in the direction of the arrow B, a spider 22 and a swash blade 27 are pushed up at the same time, increasing the pitch angles of upper and lower rotor blades 7a, 7b via rods 25, 31 and pitch arms 26, 32 and lifting an airframe 1. When a collective pitch control lever 19 is pushed in the opposite direction, the pitch angles of the upper and lower rotors 7a, 7b are decreased at the same time to lower the airframe 1. Therefore, the diameter of a main rotor for obtaining the same lift can be made smaller than that of a single rotor.



LEGAL STATUS

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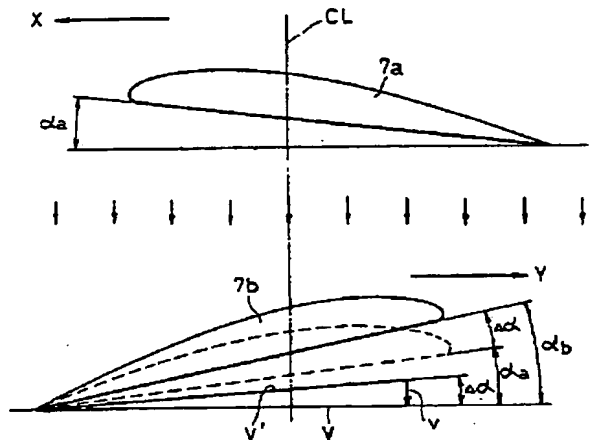
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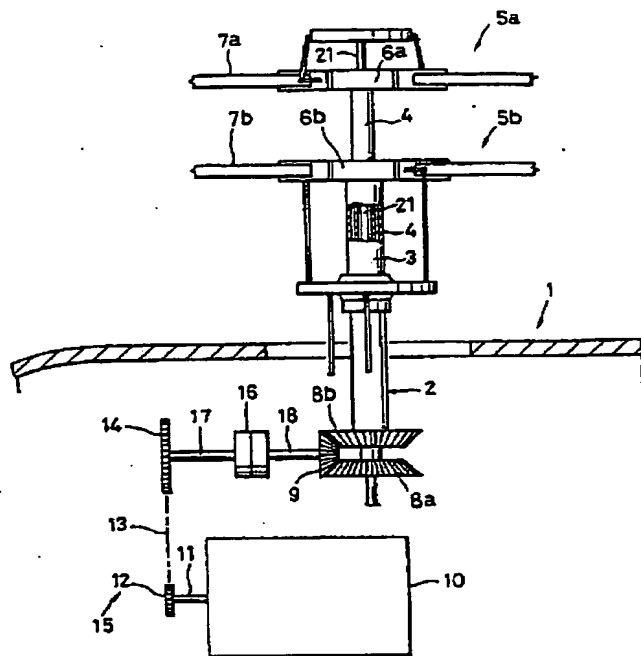
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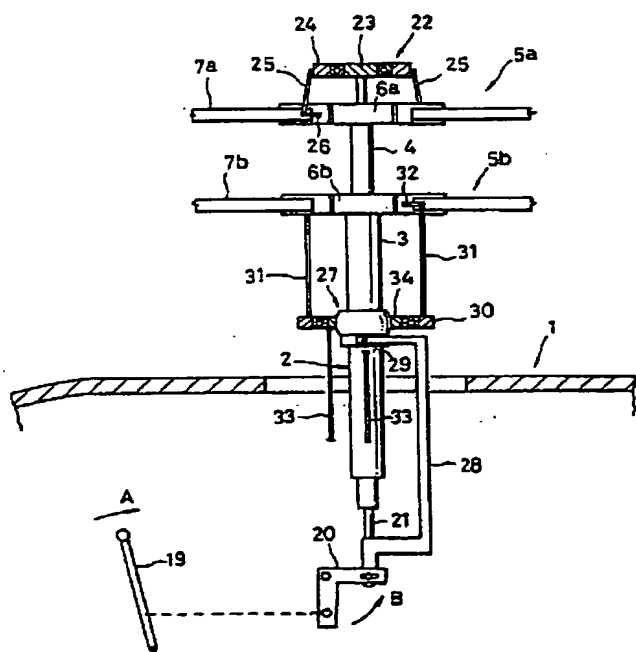
第 1 圖



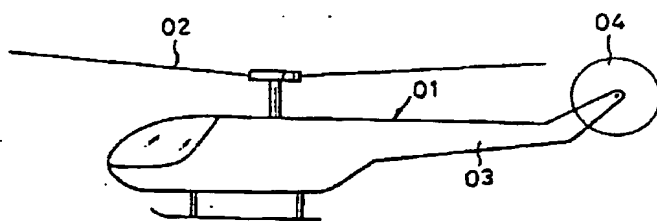
第 2 圖



第 3 圖



第 4 圖



第 5 圖

